

## APPENDIX 1

**Table 3.** Detailed description and definition of perinatal data collected during participants inpatient stay in the Special Care Nursery, Nambour General Hospital.

Variable	Description	Code
1. ID	Subject ID	001-
2. Sex	Sex of the child	1=Male 2=Female
3. Ethnic	Ethnicity of the child	1 = Caucasian 2 = Aboriginal/Torres Strait 3 = Maori/Polynesian 4 = Asian 5 = Other
4. Multi	Multiple birth status	1= singleton 2 = twin 3 = triplet 4 = quadruplet or >
5. Siblings	Number of siblings	0 = only child 1 = 1 sibling 2 = 2 siblings 3 = 3 siblings 4 = 4 or more siblings
<b>Maternal Variables</b>		
6. Mat_diab	History of diabetes	1= non diabetic 2= Type 1 diabetes 3 = Type 2 diabetes 4 = Gestational diabetes
7. Mat_inf	Infection in pregnancy or at delivery	0 = No 1= Yes
8. Mat_depr	History of depression	0 = No 1= Yes
9. Mat_pl	Placental presentation in pregnancy or delivery	1 = nil complication 2 = placenta Previa 3 = abruption
10. APH	Antepartum haemorrhage	0 = No 1 = Yes
11. Mat_pre	Pre-eclampsia/eclampsia in pregnancy	1 = none 2 = Pre-eclampsia 3 = HELLP (haemolysis, elevated liver enzymes, low platelets) 4 = eclampsia
12. TTTS	Twin to twin transfusion syndrome in pregnancy	0 = No 1 = Yes
13. SPTL	Spontaneous preterm labour	0 = No 1 = Yes

14. PROM	Premature rupture of membranes	0 = No 1 = Yes
15. Chorio	Chorioamnionitis in pregnancy	1 = none 2 = clinical 3 = histological
16. Mat_IUGR	Intrauterine growth restriction (IUGR) as cause of preterm delivery	0 = No 1 = Yes
17. F_dist	Foetal distress during pregnancy or delivery	1 = none 2 = foetal distress in pregnancy 3 = foetal distress in delivery
18. Mat_subst	Substance use in pregnancy	1 = no substance use 2 = smoking 3 = alcohol 4 = drug use 5 = combined substance use
19. Mat_med	Medications prescribed in pregnancy	0 = No 2 = Yes
20. Mat_cort	Maternal corticosteroids	0 = No 1 = Yes
21. Mat_MgSO4	Maternal magnesium sulphate	0 = No 1 = Yes
22. Mat_antib	Maternal antibiotics	0 = No 1 = Yes
23. Mat_del	Type of delivery	1 = spontaneous vaginal 2 = assisted vaginal (forceps or vacuum) 3 = caesarean section
<b><i>Infant Variables</i></b>		
24. K	Gestation at delivery	In weeks (23 -36)
25. BW	Birth weight	In grams (400 – 2000)
26. Apgar 1	Apgar score at 1 minute	Numbered score (0, worst - 9, best)
27. Apgar 5	Apgar score at 5 minutes	Numbered score (0, worst - 9, best)
28. Resus	Resuscitation requirement at birth	1 = nil requirement 2 = oxygen only 3 = oxygen and mask resuscitation 4 = CPAP 5 = intubation/ventilation
29. Inf_surf	Surfactant requirement	1 = nil 2 = 1 dose 3 = 2 or more doses
30. Inf_IUGR	IUGR status at birth	0 = birth weight > 10 <sup>th</sup> centile 1 = birth weight < 10 <sup>th</sup> centile
31. Inf_vent	Total time intubated and ventilated	In 15 minute intervals per hour (1.0, 1.25, 1.5, 1.75, 2.0 to .....)

32. Inf_CPAP	Total time on CPAP	In 15 minute intervals per hour (1.0, 1.25, 1.5, 1.75, 2.0 to .....)
33. Max_O2	Maximum concentration of Oxygen administered during neonatal care	In percentage (0-100%)
34. Inf_CST	Infant required corticosteroid treatment	0 = No 1 = Yes
35. Inf_mg	Infant prescribed MgSO4	0 = No 1 = Yes
36. Inf_Ptx	Incidence of pneumothorax	0 = No 1 = Yes
37. Inf_IVH	Incidence of intraventricular haemorrhage	1= no IVH 2= unilateral IVH 3= bilateral IVH
38. Inf_grade	Highest grade of IVH diagnosed on cranial ultrasound – using the Australian and New Zealand Neonatal Network Data Definitions	+ classification by ANZNN definition 0 = None 1 = Grade 1 2 = Grade 2 3 = Grade 3 4 = Grade 4 Localised 5 = Grade 4 – Extensive
39. Inf_PVL	Highest grade of periventricular leukomalacia diagnosed on cranial ultrasound or MRI	++ classification by ANZNN data definitions 0 = no cysts 1 = porencephalic cysts 2 = PVL confined to one region 3 = PVL extending to two or more regions
40. Inf_brain	Other infant brain abnormality or pathology (not IVH or PVL)	1 = no abnormality detected 2 = hydrocephalus 3 = porencephalic cyst formation 4 = absent corpus callosum 5 = other brain insult or abnormality
41. Inf_cardio	Presence or absence of a congenital heart abnormality	1 = not present 2 = PDA*, no treatment required 3 = PDA*, treated medically 4 = VSD** 5 = other abnormality *** 6 = more than 1 abnormality
42. Inf_NEC	Presence and severity of necrotising enterocolitis	1 = none 2 = clinical signs only 3 = clinical and radiologic signs 4 = perforation 5 = surgery required
43. Inf_blood	Number of blood transfusions required during neonatal care	1 = none 2 = 1 3 = 2 4 = 3 or more

44. Inf_sepsis	Incidence of infection during neonatal care	1 = no infection 2 = early infection < 48 hours 3 = late infection > 48 hours 4 = both early and late infection
45. Inf_antib	Number of courses of antibiotic therapy required during neonatal care	0 = nil required 1 = 1 course 2 = 2 courses 3 = 3 courses 4 = > 3 courses
46. Inf_ROP	Retinopathy of prematurity, worst grade recorded in medical chart	+++ classification summary 0 = no ROP 1 = stage I 2 = stage II 3 = stage III 4 = stage IV 5 = stage V
47. Inf_TPN	Duration of total parenteral nutrition	In days (1 - )
48. Feed_dc	Feeding status at discharge	1 = exclusive breast feeding 2 = mixed breast/bottle feeding 3 = breast fed and nasogastric tube 4 = bottle fed only 5 = bottle fed and nasogastric tube 6 = nasogastric tube only
49. Nutri_dc	Nutritional status at discharge	1 = breast milk 2 = mixed breast milk and formula 3 = formula only
50. Wt_dc	Weight at discharge	In grams (0 to )
51. Inf_BPD	Presence and severity of bronchopulmonary dysplasia	++++ Definition by severity for infants born at < 32 weeks g.a 0 = no BPD 1 = mild 2 = moderate or severe
52. O2_dc	Oxygen requirement at discharge	In litres/minute (0 to )
53. Plagio_dc	Plagiocephaly present at discharge	1 = no plagiocephaly 2 = mild 3 = severe

+ Highest level of Intraventricular Haemorrhage (using ANZNN data definitions)  
0 = None – CUS/ post mortem shows no haemorrhage  
1 = Grade 1 – Subependymal germinal matrix haemorrhage  
2 = Grade 2 – Intraventricular haemorrhage  
3 = Grade 3 – Intraventricular haemorrhage with ventricle distended with blood  
4 = Grade 4 – Localised parenchymal haemorrhage  
5 = Grade 4 – Extensive intraparenchymal haemorrhage

++ Cerebral Cysts (using ANZNN data definitions)  
0 = no cysts, no cystic lesions seen on CUS  
1 = Porencephalic cyst(s)  
2 = Periventricular leukomalacia primarily confined to one of the regions: anterior frontal, posterior frontal, parietal, temporal or occipital region (same as defined for periventricular haemorrhage)

3= Extensive leukomalacia involving two or more of the above regions

+++ ROP Classification

Stage 1 – Mildly abnormal blood vessel growth

Stage 2 – Moderately abnormal blood vessel growth

Stage 3 – Severely abnormal blood vessel growth

Stage 4 – Partially detached retina

Stage 5 – Completely detached retina and the end stage of the disease

++++ Definition of BPD for infants born at < 32 weeks g.a

(based on the National Institute of Child Health and Human Development/National Heart, Lung, and Blood Institute Workshop Summary, 2001)

Mild - in supplemental oxygen at 28 days of age, but in air by 36 weeks corrected age.

Moderate - requiring <30% supplemental oxygen at 36 weeks corrected age.

Severe - in >30% supplemental oxygen and/or requiring positive pressure support, CPAP or ventilation, at 36 weeks corrected age.

\* PDA = Patent Ductus Arteriosus

\*\* VSD = Ventricular Septal Defect

\*\*\* Other cardiac abnormalities include: aortic stenosis, atrial septal defect, atrioventricular canal defect, co-arctation of the aorta, hypoplastic left heart syndrome, patent foramen ovale, pulmonary atresia, pulmonary stenosis, tetralogy of fallot, total anomalous pulmonary venous connection, transposition of the great arteries, tricuspid atresia, truncus arteriosus